



# ESI ePhoneX™ Enterprise IP Phone

## Datasheet

The **ESI ePhoneX™ Enterprise IP Phone** is a high-end desktop phone with a built-in sidcar that supports up to 106 LED programmable feature keys. This phone is designed for users that handle heavy call volumes and need visibility into multiple extensions on the network.

### Base Specifications

Model	Screen Size	Handset
ePhoneX	4.3" (main) 2 x 3.5" (side)	HD
Ethernet	PoE	Power Adapter
10 / 100 / 1000 Mbps	✓	Sold Separately



### Overview

- Compatible with eSIP Evolution Series™ and ESI eCloud PBX™
- 20 SIP accounts
- HD Voice (handset + speakerphone)
- PoE Enabled - Optional external power supply sold separately
- 4.3" main color display, 2x3.5" side color displays for DSS keys
- Handset / Hands-free / Headset modes
- Electronic Hook Switch - support for Plantronics® headsets
- Intelligent Programmable Feature Keys
- Reversible Desktop Stand for adjusting phone angle
- Industrial Standard Certifications: FCC
- Hearing Aid Compatible (HAC)

### Call Features

- Call out / answer / reject
- Mute Key
- Call Hold / Resume
- Call Waiting
- Intercom
- Caller ID Display
- Speed Dial
- Anonymous Call (Hide Caller ID)
- Call Forwarding (Always / Busy / No Answer)
- Call Transfer (Blind / Supervised)
- Call Parking / Pick-up (depending on server)
- Redial
- Do-Not-Disturb (per account)
- Auto-Answering (per line)
- Voice Mail
- 3-way Conference
- Hot Line (off-hook dial)

### Phone Features

- 106 Programmable Feature Keys
  - 10 keys on the main screen
  - 96 keys on the side panel (3 pages of 32 keys)
- Local Phonebook (2000 entries)
- Remote Phonebook (XML / LDAP, 2000 entries)
- Call log (1000 entries, in / out / missed)
- Black / White List Call Filtering
- Screen Saver
- Voice Message Waiting Indication (VMWI)
- Fixed Feature Keys
- Network Time Synchronization
- Built-in Bluetooth 2.1: Supports Bluetooth headset
- Supports Recording (via Server)
- Action URL / Active URI
- uaCSTA

### Audio

- HD Voice Microphone/Speaker (Handset/Hands-free, 0 ~ 7KHz Frequency Response)
- Wideband ADC/DAC 16KHz Sampling
- Narrowband CODEC: G.711a/u, G.723.1, G.726-32K, G.729AB
- Wideband CODEC: G.722, AMR-WB, Opus
- Full-duplex Acoustic Echo Canceller (AEC)
- Voice Activity Detection (VAD) / Comfort Noise Generation (CNG) / Background Noise Estimation (BNE) / Noise Reduction (NR)
- Packet Loss Concealment (PLC)
- Dynamic Adaptive Jitter Buffer up to 300ms
- DTMF: In-band, Out-of-Band – DTMF-Relay (RFC2833) / SIP INFO

## Networking

- 10/100/1000 Mbps Ethernet, dual bridged port for PC bypass
- IP Mode: IPv4 / IPv6 / IPv4 & IPv6
- IP Configuration: Static / DHCP / PPPoE
- Network Access Control: 802.1x
- VPN: L2TP (Basic Unencrypted) / OpenVPN
- VLAN, LLDP, QoS
- RTCP-XR(RFC3611), VQ-RTCPXR(RFC6035)
- WIFI: 2.4Ghz via addition of 2.4Ghz WIFI adapter (WIFI adapter sold separately)

## Protocols

- SIP 2.0 over UDP / TCP / TLS
- RTP / RTCP / SRTP
- STUN
- DHCP
- IPv6
- LLDP
- PPPoE
- 802.1x
- L2TP (Basic Unencrypted)
- OpenVPN
- SNTP
- FTP / TFTP
- HTTP / HTTPS
- TR-069

## Deployment & Maintenance

- eSIPx Bulk Auto-Provisioning
- Auto-Provisioning via FTP / TFTP / HTTP / HTTPS / DHCP OPT66 / SIP PNP / TR-069
- Web Management Portal
- Web-based Packet-dump
- Configuration Export / Import
- Phonebook Import/Export
- Firmware Upgrade
- syslog

## Physical Specifications

- Main LCD x1: 4.3 inch (480x272) color-screen LCD
- Feature Key-mapping LCD x2: 3.5 inch (320x480) color-screen LCD
- Keys:
  - 106 Programmable Feature Keys with tri-color LEDs
    - 10 keys on the main screen
    - 96 keys on the side panel (3 pages of 32 keys)
  - 4 Soft keys
  - 6 Function keys (Hold, Call forward, MWI, Headset, Phonebook, Redial)
  - 4 Navigation keys + 1 OK key + 1 Return Key
  - 12 Standard Dial Pad keys
  - 3 Volume Control keys, Up / Down / Mute (Microphone)
  - 1 Speakerphone key
  - 3 Page Switch (PS) keys
- Standard RJ9 Handset Wire x1
- 1.5M CAT5 Ethernet Cable x1
- Back Rack x1
- RJ9 Port x2: Handset x1, Headset x1
- RJ45 Port x2:
  - Network x1
  - PC x1 (Bridged to Network)
- USB2.0 Port x1: Standard A, Connect with Wi-Fi USB dongle
- DC Power Input: 5V / 2A
- Power Consumption (PoE): 2.6~ 9W, Peak – 3W ~ 4.7W
- Power Consumption (Adapter): 2.4~ 8W
- Working Temperature: 32 ~ 113° F
- Working Humidity: 10 ~ 95%
- Reversible Desktop Stand
- Color: Dark gray
- Device Dimensions:
  - Desktop Stand (Angle 1): 12.2 x 8.4 x 7.4 inches
  - Desktop Stand (Angle 2): 12.2 x 8.9 x 6.6 inches

The above specifications may be updated in the future without prior notice.  
All hardware/software/physical features should be based on the final shipped products.